

From: glowbugs@sco.theporch.com Wed Mar 5 22:31:59 1997
Return-Path: <glowbugs@sco.theporch.com>
Received: from sco.theporch.com (sco.theporch.com [192.150.244.23])
by uro.theporch.com (8.8.5/AUX-3.1.1)
with ESMTP id WAA19968 for <shimshon@uro.theporch.com>;
Wed, 5 Mar 1997 22:31:57 -0600 (CST)
From: glowbugs@sco.theporch.com
Received: from sco.theporch.com (localhost [127.0.0.1])
by sco.theporch.com (8.8.5/SCO-5.0.2) with SMTP
id EAA23208; Thu, 6 Mar 1997 04:30:40 GMT
Date: Thu, 6 Mar 1997 04:30:40 GMT
Message-Id: <199703060430.EAA23208@sco.theporch.com>
Errors-To: ws4s@infoave.net
Reply-To: glowbugs@sco.theporch.com
Originator: glowbugs@sco.theporch.com
Sender: glowbugs@sco.theporch.com
Precedence: bulk
To: Multiple recipients of list <glowbugs@sco.theporch.com>
Subject: GLOWBUGS digest 465
X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@sco.theporch.com
Status: 0

GLOWBUGS Digest 465

Topics covered in this issue include:

- 1) How to subscribe
by Jim Dolson <dolsonj@ix.netcom.com>
- 2) tnx jeff kg7fj
by leeboo@ct.net (Leon Wiltsey) (by way of leeboo@ct.net (Leon Wiltsey))
- 3) GLOBE KING 400 finals (Was: Design specs V-70-D)
by bry@mnsinc.com.NO_SPAM (Brian Carling AF4K/G3XLQ)
- 4) Tubes for sale
by "James C. Owen, III" <owen@piper.eeel.nist.gov>
- 5) Grandma Hartley Sports a New 805 Tubetopper with Gusto!
by rdkeys@csemail.cropsci.ncsu.edu
- 6) Regen Tube playings last nite.....
by rdkeys@csemail.cropsci.ncsu.edu
- 7) Swan 400 info
by ac5am@juno.com (Robert L Stolzle)
- 8) Mini-Max QRP Transmitter
by jkh@lexis-nexis.com (John Heck)
- 9) Re: Regen Tube playings last nite.....
by mjsilva@ix.netcom.com (michael silva)
- 10) Phoenix Crystals: latest word
by tomrice@netcom.com (Tom R. Rice)
- 11) Re: Swan 400 info

- by "Brian Carling" <bry@mail1.mnsinc.com>
- 12) Re: Reliable source of good-quality coil forms
by "Brian Carling" <bry@mail1.mnsinc.com>
 - 13) Re: Mini-Max QRP Transmitter
by "Brian Carling" <bry@mail1.mnsinc.com>
 - 14) Re: Swan 400 info
by Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
 - 15) Re: coil forms
by W4A0S@aol.com
 - 16) Re: coil forms source
by tomrice@netcom.com (Tom R. Rice)
 - 17) Colorburst Sprint Reminder
by Conard Murray <ws4s@InfoAve.Net>
 - 18) Re: Swan 400 info
by Kevin Pease <hamradio@mm1001.theporch.com>

Date: Wed, 05 Mar 1997 07:46:27 -0500
From: Jim Dolson <dolsonj@ix.netcom.com>
To: glowbugs@theporch.com
Subject: How to subscribe
Message-ID: <331D6B23.114F@ix.netcom.com>

Would someone please send information on how to subscribe to the list?
Tnx
Jim
wb8zbd
dolsonj@ix.netcom.com

Date: Wed, 5 Mar 1997 09:40:47 -0500 (EST)
From: leeboo@ct.net (Leon Wiltsey) (by way of leeboo@ct.net (Leon Wiltsey))
To: GLOWBUGS@SCO.THEPORCH.COM
Subject: tnx jeff kg7fj
Message-ID: <199703051440.JAA03130@blue.ct.net>

YOU PACKAGE ARRIVED TODAY

Thanks very much old buddy, I will put it to good use.

73 73 73 73

Thank the good LORD for all that you have!!!

Leon B Wiltsey jr. (Lee)

67yr old semi disabled senior
(stroke got my balance and coordination)
play keyboard and sing
music 1920's to 60'
none of the 80"S- 90's noise

Date: Wed, 05 Mar 1997 15:03:03 GMT
From: bry@mnsinc.com.NO_SPAM (Brian Carling AF4K/G3XLQ)
To: glowbugs@theporch.com
Subject: GLOBE KING 400 finals (Was: Design specs V-70-D)
Message-ID: <199703051502.KAA29377@news2.mnsinc.com>

Arthur Donovan <tozsde@pacbell.net> wrote this in the
rec.audio.tubes Newsgroup:

|>Could anyone please give me some info (design characteristics) on the
|>V-70-D tube. I have 6 brand new ones, and would like to know if I could
|>make something with them.

|>Thank you for your help;

|>Arthur Donovan

Arthur - those tubes are for the Globe King 400 transmitter!

I once owned one of these beasts and could NOT persuade the V-70D triodes
to stop self-oscillating no matter what I did with them.

I ran out of time and patience and regrettably I sold the radio transmitter.

Now, there are still a few GLOBE KINGS around, and the guys who own them
would probably love to buy those tubes from you.

I will pass the word around among them and see what happens.

V-70D triode:

PINS 1 and 4 = Filament (Cathode)
Pin 2 = N/C
Pin 3 = GRID
Plate Cap = Anode

MAXIMUM RATINGS:

Plate Dissipation 85 watts
Plate voltage 1750 V DC
Plate Current 200 mA
DC Grid current 45 mA
Filament 7.5V at 3.25 A
Grid voltage -80 to -100V DC

Power Output is in the range of 120-225 watts per tube depending on the operating conditions. Plate voltage of 1250 V DC with -72 volts on the grid will give you 120 Watts out.

I'd recommend turning the wick down a little so that they will last a long time if you plan to use them!

I will forward our messages to glowbugs@theporch.com and ask the guys there to please post it also on the BOATANCHORS group in case someone needs these and wants to contact you.

I hope that this has been helpful!

73 from Bry (((Amateur Radio G3XLQ / AF4K)))
<http://www.mnsinc.com/bry/>
E-mail: bry@mnsinc.com *** REMOVE ".NO_SPAM" to reply ***
Home of MEGALIST ham radio files, SWL info. etc. etc.
You MAY NOT use my email address for unsolicited Email!

Date: Wed, 5 Mar 1997 11:31:25 -0500 (EST)
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
To: boatanchors@sco.theporch.com, glowbugs@sco.theporch.com
Subject: Tubes for sale
Message-ID: <41487.owen@piper.eeel.nist.gov>

Guys I saw this on the packet BBS swap and thought that some of you might be interested. Contact him not me.

Our local radio club, of which I am the President, recently received a donation of 4,669 tubes from a local electronics dealer. These tubes are all A-1, brand new, sorted out, counted and in excellant condx. There are a lot of them. Anyone who would like these tubes for a Donation of \$200.00 to the Holland Amateur Radio Club can have them shipped to your door. Interested parties can contact me, The HARC president at (616)772-0367. Thanks.

He didn't give his name or call but from the packet heading I think it's K3JZ. At less than 5 cents per tube it might be worth a call. 73 Jim K4CGY

Date: Wed, 5 Mar 1997 11:58:04 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@theporch.com
Cc: rdkeys@csemail.cropsci.ncsu.edu ()
Subject: Grandma Hartley Sports a New 805 Tubetopper with Gusto!
Message-ID: <9703051658.AA111769@csemail.cropsci.ncsu.edu>

After I put the nondescript 450 volt dynamotor on ol' Grandma Hartley, she was just not quite here ol' stable self (as those that heard her originally can attest). So, in a fit of fun (as opposed to a towering rage), I went a'lookie-seein' ta wat was da matter. Typical of loose-coupled Hartleys, she were a sweatin' a tad much in the plate current department. Upping the Grid Bias resistor from 7K to 20K helped, but long-term heating drift of up to about 750 cycles was still there, even with perfect keying and relatively stable power. It seems the ol' 801A of 10 years fine service just could not quite handle the higher power without heating. In Hartley oscillator service, it is always a good rule of thumb to never run it greater than about 1/3 to 1/2 the plate dissipation of the tube, to keep electrode heating to a minimum. The 801A should be rated at about 7.5-10 watts plate dissipation, and I was pushing ol' Grandma at 10 watts input or a little more. So, with some searching, I found a lusty ol' bottle, a type 805, plate dissipation at around 75-100 watts. After doing a socket swap and puttin' on a plate cap lead down to the plate terminal of the 50watter socket, I can now plug in a 211 style or an 805 style biggiefirebottle and let ol' Grandma Hartley rip/snort with the best of them. When I fired her up, she was her ol' self, again, with a fine T8.95 note and a lusty 5 watts out and about 10 input. That HUGE firebottle emits enuf glow to light up the operating table, and is bigger than ol' Grandma herself. A fine earthy lady she be, again! So, in Hartley service, even at QRP output, use the lustiest firebottle ye can find for most stable operation.

73/ZUT DE NA4G/Bob UP

Date: Wed, 5 Mar 1997 12:32:24 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@theporch.com
Cc: rdkeys@csemail.cropsci.ncsu.edu ()
Subject: Regen Tube playings last nite.....
Message-ID: <9703051732.AA111845@csemail.cropsci.ncsu.edu>

With some of the previous discussion of tubes in regens, I got to thinking that it might be worthwhile to make up some OT triode replacement sockets and wire them up for the generic dualtriode commonubiquitous tube such as the 12AT7 and its brethren. Those things are as common as flies usually, so might make a good basis for a plain regen, even in OT circuits like I tend to run. After some puttering around the junk boxen I found a couple of 9 pin sockets and wired them with the sections together as ONE triode and dropped them into the 4 pin tube base sockets I use for coils and the like, to make 9A basing to standard triode adapters. It worked pretty good, for testing, but was not what I would call a permanent solution. I had to scrounge the 9 pin sockets, because I rarely ever use the beasts. I grappled me up an assortment of different pairs of triodes and 9A things, and set about running some comparisons, by ear, on the BA/GB 80M QRG. The receiver was my 1925 QST style 2-tube regen set (detector and one step). I had locals at 599 and Sandy out in LA at about 569, plus a few others, so it was a good range of signal strengths for comparison, and ol' 1AW was just up the band at the usual 5999999999999999. I started off with the '01A and that was a comfortable loud headphone volume on the locals and 1AW. Plate voltage was kept at 48 volts for the entire test and filament varied to suit the type of tube used (from 2.0 volts to 12.6 volts DC roughly). The '01A was very smooth in the transition into oscillation and not subject to much hand capacity effect. The '30 was slightly louder than the '01A on the locals, but not much different on the weaker stations. The ease of regeneration was also very smooth in the transition, and nil hand capacity effects were had. I put in a 12AT7 and WOW, what a temperamental beast! It was very prone to hand capacity effects going near the dial or regen control. It went into regeneration a little ahead of the others, but was very sharp in the transition to oscillation with a pronounced click. Also the range of control going into oscillation was very narrow on the knob (maybe 1-2 degrees), compared to maybe 10 degrees or more on the '01A and '30 tube. I subbed a 12AX7 and it was a better tempered beast with smoother regeneration control but it still had the hand capacity effect. I reached for the biggie dualtriodes series and put in a 12BH7A. It had a little more oompf in the audio than the others, and was about as smooth as the 12AX7, but had a little less hand capacity effect. I tried the various tubes with antenna and without antenna (and yes the regenerator could hear them perfectly copyable, although weak at maybe rst 539 on Sandy, 589 on the locals, and 599 on 1AW), and they all generally seemed pretty comparable, with a slight edge going to the early tubes in the less hand capacity effect and smoothness of regeneration departments, while the modern tubes edged out the early tubes in the sensitivity end of things, with the 12BH7A as probably the best and most controllable of the lot. I need to make up 6SN7 and 6J5 adapters for comparison, probably to round out the middle era tubes. So, for use in early sets, even the modern single-triode-wired dualtriodes will work pretty well, with the right voltages. Thus you can use a 12BH7 9A-based thing wired into a 4 pin tube base, with a 6 or 12 volt filament battery quite effectively,

in your 20's style regens.

Food for thought.....

73/ZUT DE NA4G/Bob UP

Date: Wed, 05 Mar 1997 12:53:31 EST
From: ac5am@juno.com (Robert L Stolzle)
To: glowbugs@sco.theporch.com
Subject: Swan 400 info
Message-ID: <19970305.114951.3366.2.ac5am@juno.com>

Hello everyone,

I am new to this list so don't know much about who is on it. I'm back into ham radio after 23 years with an expired tkt. My old call was K5QYY which I recd in 1958, General class. Now back on the air with a bunch of Ten Tec rigs but as always we go back to our roots. Tube type rigs is what I cut my teeth on.

I have a friend that wants to sell a Swan 400 with ext. solid state VFO and PS. Both the VFO and PS have a spkr built in. Since I don't know much about this rig can anyone tell me if it was a good rig? I know some Swans had a habit of drifting real bad but he says this one is stable. He used it on SSB only and I want to use it on CW. So, is it a good CW rig? Does it drift? Have any bad habits"? Can you suggest any other good tube type rigs for CW use? I very seldom operate SSB. I don't want to get into rebuilding anymore because my eyes are failing me. Operating CW is my joy now. Hope to wk some of you on 80M CW early evenings.

73,

Bob, AC5AM Natchitoches, Louisiana

Date: Wed, 5 Mar 97 13:25:23 EST
From: jkh@lexis-nexis.com (John Heck)
To: glowbugs@theporch.com
Subject: Mini-Max QRP Transmitter
Message-ID: <9703051825.AA09347@beans.lexis-nexis.com>

Folks,

I've been casting about for a plan for a transmitter to complete my homebrew station and found what I think is a pretty decent one. It's called the Mini-Max, and is described in the August 1990 issue of The Old Timers Bulletin. The Mini-Max uses any common late 30's audio tube for an oscillator and a metal 6L6 as a final. It utilizes a pi-network to the antenna. It has coil winding data for 6 bands, 160, 80, 40, 30, and 20. It is crystal controlled. What I think is really neat about it is that it is designed to utilize a chassis of a working BC receiver, transformer powered, as a power supply. One simply removes the final audio tube from the BC and install it in the Mini-Max, and plug in the power cable from the Mini-Max into the audio socket for power and sidetone generation. Headphone socket is provided in the Mini-Max. It is rated to put out about 9 watts and was designed to be used in the AWA Old Timers annual CW contest. The designer and author of the article is Keith Kunde, K8KK. The design was taken from a '60s QST article, according to Keith, and modified to conform more to late '30s standards.

The construction details are pretty good and it looks like it would be an easy rig for a newbie like me to build and use. It's worth a look. The back issue is still available from the Antique Wireless Association at:

AWA
c/o Debbie Roloson
2 Walnut Place
Apalachin, NY 13732
(607) 625-3031

It's Vol 31 number 2, and it runs \$3.50, I think. I ordered it just about six months ago so its probably still available.

Regards,
John Heck, KC8ETS
1009 Donson Drive
Dayton, Ohio 45429
(513)865-7036(work)
jkh@lexis-nexis.com

Date: Wed, 5 Mar 1997 12:50:55 -0600 (CST)
From: mjsilva@ix.netcom.com (michael silva)
To: glowbugs@theporch.com
Subject: Re: Regen Tube playings last nite.....
Message-ID: <199703051850.MAA09373@dfw-ix14.ix.netcom.com>

Bob wrote:
>...I put in a 12AT7 and WOW, what a tempermental beast!

That doesn't surprise me too much, since the 12AT7 is a high gain tube designed for TV/FM RF applications. High gain and high frequency capability always spells tempermental in my hands.

>...I need to make up 6SN7 and 6J5 adapters for comparison, probably
>to round out the middle era tubes.

I'll be interested in your results for the 6SN7 and 6SL7 (also 6C8G and 6F8G <6SN7 innards> if you wire up an adapter for them, since they have a nicer period look). Also whether there's any difference between the 6J5 and 6C5.

I wonder if there's a specific reason (such as the very narrow control range you mention) that higher-gain triodes don't seem to have been used much in regens. For example, I've never seen the 6SL7 in a regen.

Thanks for reporting your results!

73,
Mike, KK6GM

Date: Wed, 5 Mar 1997 11:15:07 -0800 (PST)
From: tomrice@netcom.com (Tom R. Rice)
To: glowbugs@theporch.com (glowbugs)
Cc: boatanchors@theporch.com (ba)
Subject: Phoenix Crystals: latest word
Message-ID: <199703051915.LAA29064@netcom2.netcom.com>

As promised, I sent Mr. Morris a long list of your comments/needs/requests re crystals. Somewhat to my surprise, I've just received the following update on this apparently rather complicated business. It looks like nothing's easy these days!

I'll dig out the address info and ba/gb access dope for him, but some of his comments would be best served by direct replies from those concerned: you know who you are ;-)

Forwarded message:

> From n0acs@juno.com Wed Mar 5 01:23:26 1997
> To: tomrice@netcom.com
> Subject: Crystal poll.

> Message-ID: <19970305.031730.5471.8.N0ACS@juno.com>

> X-Mailer: Juno 1.15

> X-Juno-Line-Breaks: 17-18,26-27,33-36

> From: n0acs@juno.com (John R. Morris)

> Date: Wed, 05 Mar 1997 04:22:26 EST

>

> Thank you Tom for the polled information. I appreciate your effort very
> much. I do not have internet access where I am located with out long
> distance charges, so I have just continued with the E-mail. I appreciate
> the freqs. which you listed. At present I plan to build up a stock of the
> "popular" QRP and other freqs. so that I can effect prompt shipments. At
> present the problem with providing FT-243 holders is that no one has
> manufactured them since the end of the Korean war. Bob at CW and Jan
> crystal both bought huge quantities of the surplus crystals and blanks
> which the government had on hand at the end of WW2. As Bob puts it
> "quartz doesn't rot"! They bought the stuff at about 10cents on the
> hundred dollars of crystals if you can imagine that. Bob has been working
> all these years off that original stock. When and if he ever gets me an
> inventory list as he's promised, I'll probably undertake the FT-243's
> providing we can come to an agreement. I've been down there twice since
> Dec., and I can't really blame him for not wanting to get out in a cold
> warehouse, and do an inventory. If this doesn't gel I probably will not
> have FT-243's as my equipment is not really capable of cutting the square
> and rectangle blanks with out a lot of changes.

>

> I do have HC-6 holders with the .093 size pins to fit the FT-243 style
> sockets so that shouldn't be a problem in using these in their place. I
> noticed that you had a reply in the material that C & H in Calif. had
> FT-243's at like 100 quantities at 50 cents each. I would appreciate an
> address or phone no. for C&H if you can possibly come up with it. Also
> does the gentleman who sent in that comment live in the same location as
> C&H? I sent an e-mail inquiry to Surplus Al regarding his stock ao I am
> waiting to see what he has.

>

> Before I forget it could you advise me on how I go about subscribing to
> "boat anchors"? I have some older stuff I'd like to peddle if anyones
> interested. I also have a 500 hz. mech. filter that is new and fits the
> Collins 75A4 rec. which I would like to trade for a 500 hz. filter for a
> Collins 75S3 rec., or sell. Also how about the contact for the "glow
> bugs" net?

>

> I'll say 73 for now and hope to hear from you soon.

> John

>

--

"Start off every day with a smile and get it over with." --W.C.Fields

Tom R. Rice
tomrice@netcom.com
CIS: 71160,1122

Date: Wed, 5 Mar 1997 15:24:26 +0000
From: "Brian Carling" <bry@mail1.mnsinc.com>
To: ac5am@juno.com, glowbugs@sco.theporch.com
Subject: Re: Swan 400 info
Message-ID: <199703052023.PAA17773@news2.mnsinc.com>

Hi Bob and welcome to GLOWBUGS! It's good to see you here.

I like to build old style CW xmtrs of the simpler cvariety but I have also a few firebottle gadgets of a commercial nature lately.

As I remember the SWAN 400 it as a newer rendition of the SWAN 350 with some improvements. The front panel was more stylish, but used plastic some places that the 350 hadn't and generally looked newer but cheaper to me. I think they did improve and stabilize the VFO somewhat, but I have never owned or operated a 400. They used to have some for sale at the store where I bought my ham supplies in Mount Juliet, TN in the 1970s, which I think closed down long a go.

Again, I THINK I am picturing the correct rig in my mind here...

Your mileage may vary.

Bry

On 5 Mar 97 at 17:54, Robert L Stolzle spoke about Swan 400 info and said:

> Hello everyone,
>
> I am new to this list so don't know much about who is on it. I'm back
> into ham radio after 23 years with
> an expired tkt. My old call was K5QYY which I recd in 1958, General
> class. Now back on the air with a
> bunch of Ten Tec rigs but as always we go back to our roots. Tube type
> rigs is what I cut my teeth on.
>
> I have a friend that wants to sell a Swan 400 with ext. solid state VFO
> and PS. Both the VFO and PS have a spkr built in. Since I don't know much
> about this rig can anyone tell me if it was a good rig? I know
> some Swans had a habit of drifting real bad but he says this one is

> stable. He used it on SSB only and I want to use it on CW. So, is it a
> good CW rig? Does it drift? Have any bad habits"? Can you suggest any
> other good tube type rigs for CW use? I very seldom operate SSB. I don't
> want to get into rebuilding anymore because my eyes are failing me.
> Operating CW is my joy now. Hope to wk some of you
> on 80M CW early evenings.

>

> 73,

>

> Bob, AC5AM Natchitoches, Louisiana

>

>

>

*** 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA *
** E-mail to: bry@mnsinc.com *
*** See the great ham radio resources at: *
** <http://www.mnsinc.com/bry/> *

Date: Wed, 5 Mar 1997 15:24:25 +0000
From: "Brian Carling" <bry@mail1.mnsinc.com>
To: glowbugs@sco.theporch.com
Subject: Re: Reliable source of good-quality coil forms
Message-ID: <199703052023.PAA17786@news2.mnsinc.com>

On 5 Mar 97 at 0:56, Jeffrey Herman spoke about Re: Reliable source
of good-quality and said:

> I save pill bottles just for this very purpose; also small-diameter
> cardboard tubes (such as the wife's/girlfriend's fem hygiene thingie),
> et cetera...
> Jeff KH2PZ

Jeff what a good idea. Now me and the son won't have to be so
embarrassed when the TV ads get into the gory details about those
things; I can just chuckle and look them over for new developments
that will help the RF technology here! For example, the new "GLIDE"
feature ought to really help VFO coils(!) Sorry guys, couldn't
resist!

Bry, AF4K

*** 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA *
** E-mail to: bry@mnsinc.com *
*** See the great ham radio resources at: *

** <http://www.mnsinc.com/bry/> *

Date: Wed, 5 Mar 1997 15:24:26 +0000
From: "Brian Carling" <bry@mail1.mnsinc.com>
To: glowbugs@theporch.com
Subject: Re: Mini-Max QRP Transmitter
Message-ID: <199703052023.PAA17780@news2.mnsinc.com>

This sounds like an interesting beast, John! I like metal 6L6 tubes.

Does it use a PI-NET output tank or link coupling or what?

For some reason I can only get about 4 watts out of mine. I think the plate voltage might be a bit low - at 250V DC.

Let us know how the project goes!

I just picked up an ELDICO RADIO CO. of NY transmitter that uses a 6AG7 and a 807 for 60 watts input. The crazy old thing uses plug-in coils with LINK COUPLING! Only came with one set of coils. A coil for the grid and a coil for the plate, he he! OLD lo-tech design!

Regards - Bry

On 5 Mar 97 at 18:26, John Heck spoke about Mini-Max QRP Transmitter and said:

> Folks,
> I've been casting about for a plan for a transmitter to complete my homebrew
> station and found what I think is a pretty decent one. It's called the Mini-Max,
> and is described in the August 1990 issue of The Old Timers Bulletin. The Mini-
> Max uses any common late 30's audio tube for an oscillator and a metal 6L6 as a
> final. It utilizes a pi-network to the antenna. It has coil winding data for 6
> bands, 160, 80, 40, 30, and 20. It is crystal controlled. What I think is really
> neat about it is that it is designed to utilize a chassis of a working BC
receiver,
> transformer powered, as a power supply. One simply removes the final audio tube
> from the BC and install it in the Mini-Max, and plug in the power cable from the
> Mini-Max into the audio socket for power and sidetone generation. Headphone
socket
> is provided in the Mini-Max. It is rated to put out about 9 watts and was
designed
> to be used in the AWA Old Timers annual CW contest. The designer and author of
the

> article is Keith Kunde, K8KK. The design was taken from a '60s QST article,
accord-
> ing to Keith, and modified to conform more to late '30s standards.
>
> The construction details are pretty good and it looks like it would be an
> easy rig for a newbie like me to build and use. It's worth a look. The back
issue
> is still available from the Antique Wireless Association at:
>
> AWA
> c/o Debbie Roloson
> 2 Walnut Place
> Apalachin, NY 13732
> (607) 625-3031
>
> It's Vol 31 number 2, and it runs \$3.50, I think. I ordered it just about
> six months ago so its probably still available.
>
> Regards,
> John Heck, KC8ETS
> 1009 Donson Drive
> Dayton, Ohio 45429
> (513)865-7036(work)
> jkh@lexis-nexis.com
>
>

*** 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA *
** E-mail to: bry@mnsinc.com *
*** See the great ham radio resources at: *
** <http://www.mnsinc.com/bry/> *

Date: Wed, 05 Mar 1997 15:28:16 -0600
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
To: ac5am@juno.com
Subject: Re: Swan 400 info
Message-ID: <331DE570.2D61@dlep1.itg.ti.com>

Robert, the Swan 400 is a pretty decent SSB rig. It was one of the early Swans and was available in the mid-60's. Because of the VFO being external to the rig, the Swan 400 actually should have somewhat better frequency stability than the 350 and 500, all of which used essentially the same VFO. Frequency stability of the Swans varied somewhat from rig to rig and band to band. My Swan 500 from a cold start just varies a few hundred hertz until it's fully warmed up on most bands. On 15

meters though, it varies a couple of kilohertz and even after warm-up continues to vary just enough to be noticeable.

There's not really much to recommend it as a CW rig. While I've never had a 400, I believe the 400 has the same 2.7 kHz wide crystal filter as the 350 and 500. CW filtering was accomplished with the addition of an add-on audio filter which mounted inside the 117XC power/supply/speaker case.

As for CW use, a Heath SB-102, SB-101 or HW-101 with CW filter installed makes an excellent CW radio. These radios are often found in the \$100 to \$150 price range.

Good luck.

Regards,
Bill Sorsby, N5BU

Robert L Stolzle wrote:

> I have a friend that wants to sell a Swan 400 with ext. solid state VFO
> and PS. Both the VFO and PS have a spkr built in. Since I don't know much
> about this rig can anyone tell me if it was a good rig? I know
> some Swans had a habit of drifting real bad but he says this one is
> stable. He used it on SSB only and I want to use it on CW. So, is it a
> good CW rig? Does it drift? Have any bad habits"? Can you suggest any
> other good tube type rigs for CW use? I very seldom operate SSB. I don't
> want to get into rebuilding anymore because my eyes are failing me.
> Operating CW is my joy now. Hope to wk some of you
> on 80M CW early evenings.
>
> 73,
>
> Bob, AC5AM Natchitoches, Louisiana

Date: Wed, 5 Mar 1997 17:19:51 -0500 (EST)
From: W4AOS@aol.com
To: glowbugs@theporch.com
Subject: Re: coil forms
Message-ID: <970305171915_1612912925@emout05.mail.aol.com>

In a message dated 97-03-04 18:57:55 EST, you write:

<< when I tried it the PVC came out without

the slightest hint of warming. If I knew of some other easily-available (key phrase) plastic tubing that had the right physical properties I'd try it, but we should also remember that our predecessors often used lots worse. BTW, I've also heard the grey (UV-resistant) PVC is not as good as the white, due to the additives used in it. >>

I get polystyrene tubing in 1" or 1 1/2" size from "ACME PLASTICS". No kidding, that is their name. It's a national firm and should have an outlet in most larger city's. Look them up, they have it in four or five foot lengths and its not too expensive. Its easily cut and drilled etc and looks better than that PVC pipe. Of course its RF loss is practically zero. you can glue it to an old tube socket, using some of the smaller sizes to build it up to the correct inside diameter.

Bob w4aos@aol.com

Bob

Date: Wed, 5 Mar 1997 18:08:28 -0800 (PST)
From: tomrice@netcom.com (Tom R. Rice)
To: glowbugs@theporch.com (glowbugs)
Subject: Re: coil forms source
Message-ID: <199703060208.SAA04853@netcom5.netcom.com>

>
> I get polystyrene tubing in 1" or 1 1/2" size from "ACME PLASTICS". No
> kidding, that is their name. It's a national firm and should have an outlet
> in most larger city's. Look them up, they have it in four or five foot

Out here in the SF Bay Area we have TAP Plastics, with
a full product line. Recommended.....

73 de WB6BYH

--
"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com
CIS: 71160,1122

Date: Wed, 05 Mar 1997 21:34:54 -0600

From: Conard Murray <ws4s@InfoAve.Net>
To: glowbugs@sco.theporch.com
Subject: Colorburst Sprint Reminder
Message-ID: <2.2.32.19970306033454.009852b4@infoave.net>

>Return-path: <owner-qrp-1@Lehigh.EDU>
>Date: Wed, 05 Mar 1997 19:36:30 -0500 (EST)
>From: Ted Albert <72437.651@CompuServe.COM>
>Subject: Colorburst Sprint Reminder
>Sender: owner-qrp-1@Lehigh.EDU
>To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
>X-To: qrp-1@Lehigh.EDU
>Reply-to: 72437.651@CompuServe.COM
>X-Listprocessor-version: 8.1 beta -- ListProcessor(tm) by CREN

>
>The fifth night of the Colorburst Sprint is this Thursday, 3/6/97, from 9-10PM
>EST. Participation last week was very strong with many stations running
>crystal-control and/or tube transmitters. The Colorburst window last week
>ranged from about 3.577 to 3.580 and was very busy for the entire hour.
>Stations able to do so are encouraged to tune around their transmit
>frequency for responses from stations running fixed crystal-control. Don't
>forget that the Colorburst Sprint presents a great opportunity to get
>contacts with that Pixie or 80-9er rig, and you may get the opportunity to
>work a QRP glowbug station, as members of the Glowbug list will be joining
>us for this event.

>
>After the Sprint has closed at 10PM EST, I will switch to 3.686 Mhz and
look for
>QRP contacts. I modified this year's transmitter to offer 3 crystal
frequencies, 3.560,
>3.579 and 3.686 Mhz.

>
>Attached with this note are the rules for the Colorburst Sprint.

>
>Hope you can join us!

>
>72 de Ted, KF8EE
>NE404

>
>-----
>Announcing the :

>
>QRP-NE (QRP Club of New England)

>
> 79er SPRINT
> -----

>
>When: Each Thursday evening during February and March, 1997

>
>Modes: CW - Crystal and VFO Control
>
>Freq: ~ 3.579 MHz
>
>Power Level - 5 Watts or less output power
>
>Time: 9:00 - 10:00 p.m. EST
>
>Exchange - RST QTH NE#X NAME; ie.....579 OH NE404X Ted
>
>Members use QRP-NE number; NE404 and add X if XTAL control; NE404X
>Non-members use Power Level; 4W and add X if XTAL control; 4WX
>
>QSOs are cumulative: Work the same station on subsequent Thursdays.
>Score: QSOs X SPC. Crystal Station Bonus: Total score X 1.5.
>
>The 79er transmitter was NE-QRP's first club project. It uses a
>3579.545 kHz crystal to set the frequency. These crystals are used in
>the colorburst oscillator of all color TV sets in the United States
>and Canada, and in other devices as well.
>
>The 79er event is an on-the-air get together, not a contest.
>Crystal-controlled stations append the letter "X" to their calls,
>such as "KF8EE/X." Yes, it's legal. We hope this event will stimulate
>everyone to build a crystal-controlled transmitter to use during the event!
>
> Send Logs to: Ted Albert, KF8EE
> 1924 Timberidge Drive
> Loveland, OH 45140
> (or)
>
> e-mail Logs to: 72437.651@compuserve.com
>
>Logs need to be received by April 30, 1997. Results will be published
>in "72". State Output Power Level, Type of Rig, and Antenna Type on logs.
>Include comments on the event or how you built your crystal-controlled
>transmitter for inclusion in the report in "72".
>
>
>Watch out: W1AW transmits bulletins at 10:00 pm. on 3.581 MHz
>
>-----
>
>Transmitter Reference articles:
>
>In case you were wondering, "79er" comes from 3.579 MHz
>

```
>Articles abound on building a simple crystal-controlled transmitter
>for 80 meters. Try the "Universal QRP Transmitter", page 26 of
>"Solid State Design " (ARRL), or "The Oner" (Sprat), or "The Cubic Incher"
>(ARRL), or "The 79er"/"Colorburst Special" (QRP-NE).
```

```

.....
.  Conard Murray  WS4S      Glowbugs listowner .
.    217 Dyer Avenue      ws4s@infoave.net .
.    Cookeville, TN  38501  615-526-4093 .
.      <><  Wise men still seek Him  ><> .
.  Member Arizona ScQRPions      QRP-L # 993 .
.....

```

The Drake Twins make real good CW rigs but are not full QSK. The RX has nece 500 HZ LC filtering that sounds real nice on CW. It is also capable of the WARC bands with aux Crystals. I have a T4XB/R4B and it is nice on CW. It will o[erate transcieve or split with split being nice for CW.

Kevin Pease
wb0jzg
Mount Juliet, TN.